- · Vera catches from
  . 1st Pesagro déscription
- e Brownelsed study
- · Dony in field w/ Carlos Peres
- · Release of Wichta + No.
- Poor Locomotion of Buterscotch
- · Conflicts between Ben / Jrni + J.
- · First Microman. pletform and protocals for feeding GUT-
- · Pesagro living + working The Padua visit
- · Visit to Una: compare forests.

Ecol X

Carlos 9 100 copul. Thurs. Reintr Mc + V. cof. Thurs

the Encounter be tween

8.4 (2,000)

Edux

Trips to Bragil June 1975 » Zweeks. Rio 8 o Par li June 1984 4 Révole Janeuro with Brish NOV 1983 Beck, Cohen, July 1985 Release 3 Below pur Dietz + Oak Feb 1986 3 Rio Sept 1986 21/2 week fix Brosslyi See Parlo

24 May 85 Dept. on PA 201 arrive & The late in Rio after long ting flight - Gotally packed with zeople.

Riched up by Jam & Inez. Straight to Reserve except wayland for a 2 hours with Jam trying to find hew trees for the Kombi.

Frally find them halfway

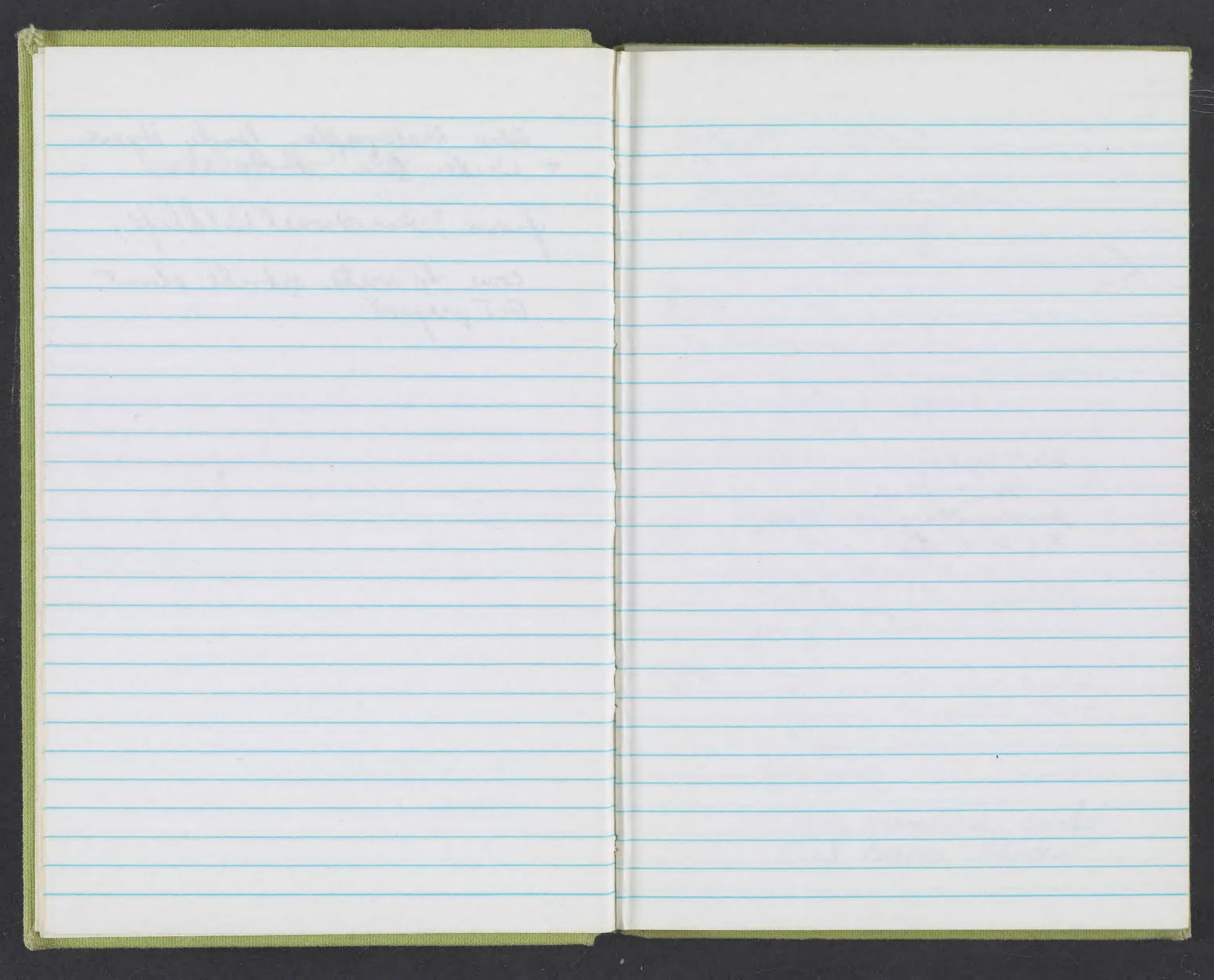
At Deserve are fim, Lon Ann Onez, Seth,

barreng is off " Carlos Peres

There are two bottomasts working on bromiliads + lurry in Solva Jardim.

a soon-to-be-married couple

Also Rhotographer Randy Hyman + Writer ala - d'Aulaire from International Wildlife, come to arute article about GUT project.



26 M 29 85 m & Dona Incommer with Ron, If q + Rinta 26 May 85 Sund.
Awaken relatively late Slow beginning

Two groups meeting
Nicoece + Vera

Rita (huffled)

visible

M. vocs.

Sater 11+ V stogether
on > 5 cm branch
Rite + Ronaldo (T4)
wrothle + 10: gmety
goes for Them.

1030 - 1230 M+V - Kids moving towards Viv 2 Graging

> M. test bromberds conted dead leaves, back

with Drog, 4 assistants, 4. me durded, one to follow loch greng, Collared (#1)Rom (#2) Vera Group I = Ron #9, and I wild-caught young & Rita. Keta was a get who was - Confiscated + who Jim the released apper Sentinel + bubies deed in order to make sure That Ron + #9 stayed in The area)

When we come on the two groups, They are in the midst of on encounter. Possibly had been going on for a while. Two groups get withen 10-15 m Medather Chattering Rita is huddled, piloerected or maleing infant rapping sound. Encounter mainly visual & vocal. No taletile inseractions Micreca however, scent marking uf a storm, including Sternal + CM marks I along deagonal branches. Mer at one point, Reta + Ron are present +

micoera very genetelly goes towards ham to Mey disappear. Then M + 1 meet up with the young. I had n't seen Them till nort. and they all begin to move In impressed with Dheri tolerance of flople including mucolea +/ Dhe variety in Their foraging strategies.

Where They search;

They took in bark, curled leaves, brownlads They seem to catch a lot of the insects to also are cating lots of buds to fruits.

leeso perhaps they are testing expect, but they often take only a bit from a Plant and move on. about 1300 hours Veras on The ground micro manipulating at he base of a small tree. the shores her hands in the between The roots and eventually pulls out a frog, about 10-20 g in size The had been reaching under the roots for is I men. Clearly, she had seen it on he ground, enguesting incredible sight for movement. While Vera Rating har frog Imarrives wt I. W. writer & shortog. Spend De next 1/2 hrs tryrig Koluggerarate Vora

Jun worted to trap to mark They are not identifiable are not identifiable and looks Vera Since she has only recently gent lacta tring and looks somewhat Then to bit rayyed — altho her excellent.

Evertually one of young Brogslew assts (Zeele (Zeele) Brogslew assts (Zeele) (Zeele) (Zeele) manages to mark one infant by attracting it with a bankna and using syringe to squirt it with Nyanzol dyl,

Vera had been longing around geople since we were warrang bananas at her trying to separate her prom messes the infants.

26/13485 Veren weight 636g - transmiller = 6089 Previous weekt 19 Sept 83 (Cefae Shipment) 27 June 84 (process) 26 OCT 84 (affix radio) 4NOV 84 " 637 31-12 ~ mid 766 85 608, 29May 85 (Abst last)

we then got Veral unto a trap + Jun weighed her 185 mn trap, Then in plastic stack. Weight between 636 + 650. first probably nione Werens wearing a transmiller and shows some flow loss where The ball Charn rubo on her neck. Ance thensmitten is about 30 gms, weight is probably too bad correlaining.

Spoke with Carlos Peres,
14is study group is 40.70
changed from greword
years, QQ Kernam
Thut completely new males,
Carlos was to be studying

foreging of The group, depending on familiarity with he diea but needs to formulate new hypotheses. Infortwately, whatever he does, he workt be able to Yest hypotheses, that are reasonable because it is only one group Jaurens to tracking & Stoths now, but had you marked. Would like to pursuest jullon W/ WWF franding, Inog is supervising of working with he young foragelien assto, in he released to collect daily data by stan samples + fora annel observations. An Evening into Alva Jardom Some young conservation group wants to here surprise B'day forty for Jun. We eat, ent cake, They famble.

Jim of drul to

Silva gardin of her to

Peo Agro site (owned by

RJ state agricultural people)

to check on possible velecol

sites.

There are 2 patches of

forest egarated by a

smaller gatch of ("10 ha)

Pa 1 km² and B a larger site

(rectangular)

Rectangular

Plusses

(1) 6 room laboratory with
water no electric at
site — Equiv. Xo PdA
glaulities

(2) State voined & supported
land — Support of official
(3) Big blocks of frest
(4) Can release both groups in same site
Negotive
(1) Hunterspecialist
(2) Orange grove next door

Use of inserticides Plotch (A) to is too open + dry -Field man feels That it's not good forest. Juni + I are inseded Pata (B) is bellen tout Mi is witherable to hunlers & distribure bordered by orange grave privalely towned. (3) GIT'S present in B (6) Site is 30 minute drive from hagrers. We see at least 3 hunters plasforms + boiting stations in The woods, Not many bromiliads in

either woods. Jon & J. return often tunch & D set and talk Jun + J. start back with Elpidso & the Concel goes out just as we start to lewe tilve garden on Their way ento Filva Jordin I go on with bouton while Jun gets car fræd. the is beaded to a goot. plant nursery to see if the can get plants ( some trees) donated to schools for essay/ drawing contest. pn shows up & we leave for Rosenve.
Call Hotel Meridili to
Any to find Dra Rubnoff.

Buy bread + back to belightes Et and talk to Ola dethere te sproject before dinner Previous evening talked The young couple working or brombiad biology. They have charled bromiliads in Dietz Portuenge area. here already noted, most There are gener bus whited in The hillsides relative to the swamp. They are then collecting 10% of bromiliads (have collected at species 10s and all potential animal prey for Gills inthus said brondliad

Tuesday 28 mig 85 anto field with Carlos Heres by 0600 hours. He connot Alocate his group for about 40 minutes since I had cornectron On receiver. manustule Climbed to trep of billside + astorished That Dhade it, Carlos + & walk down again & he dissovers modeonne tion. GLIS in breggie. De story thru swang / mud down in lowland and Carlos locates me GLTs ina Calophyllum tree feeking on nector. He shows me a tree at whose base is an area where GUTS fed on exerdate. Carlos says That the has seen GUT'S bife on branch / hunk and to induce afrable from

from 1984.

Adult 57/5A0? have totally turned over
Two new males with group and 99 while original region. I a juvenile/
SA I can inferrit last year) and a juvenile probably born in 1984/1985.

During Observations we have that the \$ SAP is haven a round the formal probably

pote that the \$ SAF is
hanging around the heavier
larger of and discuss
Carlos already established
There that the I group dominance
has changed.

social interaction may be musleading eg isgraduethire pours may snow little social

interactions (Carloz next day sees the Aor copulate wrente gounger 4). I also hit Carlos on several issues w.r.t. over-speculation; and discuss how to ferove certain points; me kinds of data you need to collect. Carlos group uses almost entrely her holes & he heart seen them using Tries for sleeping altho Jum Thunks some other groups don't always use carries. Carlos showed me a cont to That example was uncless! when he tree I fell or cracked the in half.

Returned to beforts and sat in on disculssion between Olla. Jun.

Lon Ann hod her judgerg

of essays and drawings longoing from the town Of Silvel Janden -Caarmin de Abren Yves Hublet & Dionizio The minicipalities of Echools were judging The essays of Jaanings were to helate to conservation problems so well as GLTs. OUT + chrysomelas Denner + then instructed discussion wy Jum Carlos Lerrenz Inez + Zegne re: what we Vknow about GLTS and what kinds of data need to be collected to prove certain points Wet has initial notes

We covered consusing in + out of Reserve & total #5 of aremals, hore songe syl I daily activity budgets, daily path lengths, consposerron of deet, the hales, brownlead use. & felt somewhat stiff al beginning & proises 19 m + 1 LAD as well as students, Gave everyone a lecture @ how godd they were & what la unique project the were part of while Int. Wild. writer et al weble aroundhoursey partrypated in the discussions more han I experted as did ones, Carlos didn't dominate & listened to everyone. We drank brandy & coffee.

Wed 29 may 85 Storged in to talk to onez re: rentral. data summary techniques. They have plotted The carrying of the balues in both renthoduced groups. Uso talked with Inez about her Auture at school in U.S. (a) 1030 hrs. Dra Rubinoff (Director STRI) arrives. He's in Rio sonce wibe annabella has a conference of duty, free dealers at The Hotel Herrdien - Cope cabana (apparently one of the funcions!) Ira pired a chover + car and we tail sent him directions thinker Clad Aubiera The Int. Wildlife writer. Dra so somewfat un confortable,

and marnly seems interested in Talking Washing Ton politics. be have some lunch + take him out to the Redreira Alidy area to see some Olts. We find be observer with Ron (with collar) #9 + outer in some of the scruffeet second- growth shit I vegetation ever seen, thick & hot or miserable. But tra manages to see GLTs clope up and he animals are platively calm. The young (wild-caught but) Confishated & Rita raspo at all of us as morgh food-Obegging follow. (nors ~ 15 mos old) and lustrong coat and excellent color, No more

shit-celing! Setting Thru The Ind growth tangles is a feren. & think we came on the animals during a resting bont, but They eventually begin morring and are more Return to house + brok goodbye to Ira. Dra, althour Tropres for 20 years, is unconfortable in forbst, and had new shots + no field clothes. Jam soud he mought he saw or glimmer of interest when the was about 2 feet from a GLT. Otherwise discussions were of Ro cocktail forty variety attho I ned to get Jun & Lordan

to explain what they were doing. fænt remainder og Pr talking with Irm about væreety og subjects. Chronology of animal histories. Future of project Future for Jum + Lonans next year Reveloping agreements for rights in late.

Dinner - Everyone amused by (Zek)

Jelgme since he eats

every Thing. London not

have for dinner but

shows I up later.

De continue discussion

about 666 but everyone fags ont.

Thursday 30 may 85 Talled more with Jim bonlern Laureng O grin re: future contracts with stroburg Dethi future) re: budget (3) laurenz re: school in 45. Didn't get out all day

Freday 31 May 85 West out to see Ula Maseca + keds in A.M. Ranning lightly and gray.
Probably The Offise hout.
Due seen lin brazil; despite The horror stories & the livealla has always deler Ix gruette. Depte vener & nomtter It takes about an hour for oursel's Im has a new road past the house which loads to the ottasse of the vivero low stature forest and fram, cucle a low hull to

find animals,
Takes forever to locate
them up + down hill
and I nearly lose myself
to may a few times.

teave after observe for town. Town. Supposed to see Claudio Savaget (cancelled) and your triblet with some I'V man.

To men doesn't show so we go on after truef chat with yors.

Check in Novo Mundo + ont for dinner at Coimbra's.

Jam + Combra have exclusive conversations Olds bigarre, but Jam later reminds of a similar denner at my house where mike Albinson + & dominated The conversation of lack Other.

Otherwise denner Ok ord Dretz epologiss profesely on the subsequent lay

Sati 1 June 85 Truy some bexcellent leather beggs for gifto. Tunch W/ Beraut maracuja batidas which Chicken & horsemade. Vanilla ice cream uf chocolate sance. I led up striffed. more hopping at Sao Conrado before majort. Pan Am screws up again" Meami flight is concelled. Thus every sent on Kennedy flight is booked solid. & dunt sleep,

Jessie Cohen, Ler. Ene (although straight to miklal problem mu Custom Ben Beate Dreg gordin kids. a have decided to celebrate nes birthday must be f lung batidas o back to

21 July 85 NZP Photographer. Feel rensonably awake since & slept some on plane (although overy seat occupied as usual on Pan Am). Reserva. Some enestiel problem getting Jessee Thru Customs with her camera gear. Betty Lowenn & grant a leader millson Silva gardin kids. Elpideo + Xixinha have decided to have a faity to celebrate dernghter Elianes birthday (412). There must be f 20 people drivbing batidas I drende to go back to

Resagno with Ben scale et alnote: Poros to detering getting to deserve & stop for churasco w/ jm Huring Eliane san Ty decide to thit CART Jin The My since Ben V & figure That we wont have who Then apportunity.

22 July 85 Went out of B + B + Jesone to check out viverros animals. White group looks clumsy. Theyre, The untrained group - O No locome non or Heeding pregaration. Still feeding from bouts ex. Not using as much wood owine as expected; although their wood y wire wlimpted. New Orleans group looks, better we go thru some bocals to a feeding of they immediately Start midromanifuloling, 200lung for 1400d, They are so much more active I has The Wrehiter group. About 10:30 we head out to CPRJ - W/ B +B; Dres, and andy. Jessne stays

buch to get shots of animals in owerrow with Cibell Carvalho I mention to Ben that Runs Mittermerer is abriving with penralist Ion Jackson in The AM. Ban grediets, (rightly eventually) That Russ will I shit CPRI ifirst thing. Roberto. Indeed Combra Masnit Conty visit Mond. Wed. Pri) We have a look at The hospital nutron lab & a few other sites begore Combra alrives With Russ, Don Jackson to Clous Meyer Braziliam willlafe photographen) Unusual Combra - 10ms:

(2) Saguenus broolor broolor X Clatter a bicolor w/o any Shorlders

Chiropoks saturers satoms: an all black saki (3) Several 50 hybrids of Calletanx: including pecclus gooffrom posiculata, kuhlij gooffrom (4) some lovely flavreeps male to infant. I single somale waiting.

Breeding C. aurita (3) Reddish Chrysogygus - look like rosalia. Combra's had 6 dead recalia this year 50 for. Promato bitches toposos because

he cannot to ampthing with animals. Combra Wort let him touch spacy as always. Russ shows up w/ Lon gadeson to Claws meyer (Brazilian ghotog). They we just glown in and Auss fund ore covered in sphil spilt ink from a sen (ball point). . I trought he had taken sout and gronnel it into freed year. Turnsont, They were good suit pants and he's ruines Im langue sold by the Similarity in fathers between Clair may en T Oon gackson. Same size + gross new.

Mayer Keeps having Ben Russ, Coimbra + me walking eround (8 times) CARJ looking as Mo we were discussing important matters.

CPRT looks The same. Lots of freaky looking animals trat changed from visit to visit.

Pissmath complains hat
The leepers spend 100 much
think keeping the grounds
up. No time for orumal
maintenance. Lots to
create a Showpiece.

Combra building 2 important

structures.

Murique Cage: no insult from ontside - Conerdle base - fencing wire - 2 catch cages on either side. Like Landon's gib son exhibit. Gast horrendous for Brail: \$ 15,000 from WPTI plus another \$ 8-19000.

Personath estimates whole job
will be \$ 25,000 and horrondous a mount, tince The
whole quarantine hospital
cost 1/2 That amount

Denest house - fonza cruz

put # into building a

quest house - in which

Coimbra will only house very

Special guests

Da Russ Juan - Hel Whit

we have charages fordenie at Gancho ren Silva Jorden: 23 July 85

Pen at Wichita.

Recommend Aut. My mont Comm.

for captive murigini—

arguel us Ben whether it

vas, best to support

Coumbra downfall to Thru

ranoring advice or maintaining

Coimbra thru My mont Comm.

advice 7

To silva Jardim uf dnez fersie

mail, food, etc.

no PdA. - Caluromys in The chiefen coop-

Descuss w/ Lou Ann + Imi

Problems w/ Betty Howser +

budgets + getting anything dome. go out with desoil to Vera Micerca + he do the Elizamat Mary following family. They are right at bact! station whan we arrive of Jessie has a breeze getting protos. Problom: Vera strmulating anogen + eating feels eatrie [ Vera almost dead + Jim saved + revived her: had been baiting) Weeks Jesse & o return 40 Resagno to process Wicheta.

Animal processing goes simply except it turns out that There has been a way - up in J.Ds of downsat breeding of and her daughter. Jachie mother to probably offer fachie daughter. I gim & J & Ben get high after processing—which goes simply - while leeding how twen to release Wicherta gross. Records to release Whether first based on their leing

disadvantaged -- not trained. but we need to decide how I when to remove The viveiro where to put The hear box how to provision with food (we decide on concentrate acreles at directional points of SNE, 10 SW etc.). Processing animals at lesagro 15 simple once Organized. And Juni organizes it. Jackie vs Maria clear up based on O seeth 3 steinal aggland Dependency 3 Arch walk frequency 6 outlier Valartor D in + out of nest box Suded on how + When to release wine + late -

24 July 85 Day Q I Writing Stayed night at PdA +
returned in am for 1st release
of Wichita.

Had a million se ople hanging Release @ 1330 - Day is cloudy + periodically raining. vakes us forever to get Neceled to make concentric cucles in 5 m intervals at for hasting rand only distributed Elpedio + Antonio start Ungastening roof of cage. De setter realize mat The animals were released about 1240 after anote that There was a hale already in the roof of me and.

The wichter group, however do not see The hole and stay within The viveiro. Maria is first animal out @ 1300 hours. By 1340 all onemeds out except Pere who moves slavly and seems confued.

The group starts chirping:

the Wichita group are senachable for Their lock of micro manipulation. They show almost no explorationy behavior in small holes + lunder back. Their locomotion is surprisingly good, considering Their world recent environment; NZP guarantine.

They have, howeve, no social behavior! Maria is an outlier + doesn't interact we The group. The young male Juan with the stub/toil begs, steal, etc food from everyone.

Jackie 1 Pepe 1 Maria & Juan V maria auch walking frequently When we Jochnes presence, suggesting lots of conflict between mother & daughter, assuming that Maria Ois he wany people around. Ben Jun + & keep trying to deade how to define a dead Comarin And What we are trying to do. (1) Document desperance between New Orleans I + Wichdas (2) Anitiate a rapid Haining procedure for Wichita Wow Orleans (if he cossain)
(We do not know y N.O. knows enough to Survive)

We have no Good to go unto town to eat pizza but end up at The S. Jardim hotel for dinner.

Day & Witch 25 July 85 Thursday data on the whitelesse groups onest-training me in distances + Me recording techniques. The recording is in Portriquese. de heed to lean Inough to de ford animal observations, scans etc. in Portuguese. Cibele also works W/ ns. Michita find a few skeding siles, but tend towards inactivity. They do not Whier is Ead. he see a rambow which is beautiful, but day had Started poorly was arguing with me about how many grams in a 16.

:

Then Jum arrived + Hold me hat Zeke had heard West he OC Grant Pondag had died. The news ( which was incorrect - apparently it was The London ? ) depréssed me en a stronge way De vanted to be alone for a while & decided to return to make more coffee. I could boully do it since There was no coppee left (hardly) + I a couldn't find any Thing I needed for The task. Sustrates + certainly net very stated about the released animals. They reeded decisions & with which we had yet to cope. Jun had to go to town

est.

\_\_\_\_

-----

To phone Telomes & eventually Dearnal that it wasn't bing. Everyone was terribly solicitons when they monghe it was my dead panda. ]. Andy & & west over to The New Orleans group to set up the 5-19-15 m conditue sirales por food so that we would be of the Bot N.O. ournials. It was namely & cold most While gutting out The food sixes Ben came in with trapo. We trapped the entire N.O.

We trapped the Entire N.O.

group & processed Them in

the Pasagro kitchen in

The afternoon before The sun

went down.

The processing included

Dietz, Een, andy & me.

Lessie took pretures.

We left the ominals in the Kitchen overnight.

Ones cooked dinner while Beate cut Ben + Andy's hair.

Dinner good; got a bit high.

Cibele Carvalho made a fire + we sat and drank maracinja batidas gor a while. Every me seemed to be feeling good.

Day 1 N.O.

26 July Friday

Cibele runs back to house while everyone presuring to go out. The had done a wake-up on the wicheta drimals and one & , Jackie had been vomiting for 4 minutes and booked back. I went out to look a bit fefore sen. I no longer worniting & seems active.

This group a but bisasse because May feed on sticks + things, hungry or full— Jackee may have apset her 575 mach which was not full.

I began observations with Ines + Cibcle, and came to a point where I controdicted some of Den's intructions.

It modwed he fact that the f Jockie was himging + the proup had found science diet, but she had n't had any. Bratructions involved adding food and I said no - not while orinals were sitting + watching.

Cibelle got starther upset & Thought we (2) was starring Dachie.

Of all eventually go O worked out w/ talking with Len dian, etc. And generally agreed that Cibele upset) because of ramarins, of leaving project of blaving friends, of set the projecting motions outs animals

Occided to solesse NO. group often Overly wronal and

Destroyed back to continue Wichto Observes. while NO released. Then organized wy some confusion and perhaps bud feeling for Ezekiel to take Jessie back to Reserve to photograph suroad, dam, fire breaks aris fedes exe

arestedes is squatter with herees &
pegs who left Reserve after hernia
aperation but is now hack
leforesting area — and has
rights Mra grand father clause
and at least he is
claiming so in const.

Ben Im + 2 spend some lense moments trying to decide difference between a Theoretifally & really lead tomarin—and) how to decide when expts are over & we full The plugs.

fim pushing hard for pulling supplementation larly x letting animals die. Seveloring the cleaped most efficient wethood for lendering genes, but everying about does, wormy stople, food + time. He's leaving soon; and meeds to develop plan for how mud + how long to continue feeding.

The problem in that students to assts reed to have exact alternatives insorucions with exact alternatives tratronales for different decisions. I doubt that I find responsibility for it.

Jessie sometimes on top up it. Sometimes seems very non-adaptable.

The vehicle problem is horrendons. Inm + I return to PdA. Jessie was
real pleased since shed
gotten excellent shots of
Aristedes. Hade her first
experience of an authentic
Bragilia.

Meanwhile carburator on Rombi "The Nun" bad died or clogged and only one car was heally operational.

This is with 4 vehicles.

Including 3 combis (one alcohol one used gas, + one very used!)

Jim decides to stay at POA in morning (next) + D'd live Jessie back to Pesago.

Distance between Pesagro T PdA # is a pain t lack of fredge & constant need to buy food in Erlva Jordand is also a problem. conservation for In 15

teachers from municipality
of Arlva Jorden. Hairly
elementary + juneor high kachers.

The seemed calmet at draner
(Five hardly seen her since Dix
arrived)

Denner incheded Corlos, Lou Anny Juin, 2 education women, & Ezekiel + Jessie. (Suelli; morganida) hving at Resagro; Coldest showers in The world water always needing to be pumped No fridge. Allegang on their nathrases on The Floor wy Cibele dres, Jessie,

Andy sleeps on ketcher floor.

It dive Kombi (Nun) from
IdA. to Pesago with Ikasie.
We arrive a 1745 since I
what to pick up Silva gordini
observers at 0715, It is
my first big drive in Kombi
and I'm relieved that trave
are no problems, assistants
melide Elizama, Paulo, t
Elizao.

I go straight out into field to do feeding data with Beate while Elizar & Elizana do Seans \*focals.

New Arleans group youngsters locomate beautifully and do loss of micromanipulating. Wichete group doesn't more and never micromanipulates.

But N.O. is not finding as much food as we were would hope attho it seems

full. They had bonana lapaya of saine sure they some they some they some to decide to go to sleep on or in nest box.

The They aren't ranging very for from the not lancelot bealls @ 10 m worn the tops

That hey are doing well (except that by sunday Ben is getting worned to decides to weigh animals on Monday)

Butterscotch, may not be getting enough nutritions food. Butterscotch spend meredible amount it time hear ground, Scanning (especially on Lunday 28 July)

all the assistants, including Andy Baker & Ines leave about 1400 to presare to go to Rio for Ricardo V Helendo wedding Dietz comes in topor dennér we have beer + Jesse cooles an incredibly good King Par Chicken With Chinese regetables. Everyone else goes to wedding lexcept andos)
To wedding Ohls, Andy, & Silva Jardin Desple many Elizar, Elizama, Ezekret, Hanlo; B

Don't know how they all fort

Day & Witch Dry 3 No. 28 July 85 Sunday Ben does wahe - up on NO and meet him at 0700. Anes arrives @ 1000 AM The andy goes to work with with Beater on Wichita. Everyone had a good time of wedding. Ones gating lots Ouring NO observations, anniels getting food sites 2 young 4. Herd & Vonns Danielot (filler) + Butterscotch (mother) are very gonelt and offen seem orgilant at appointe ands of where the young sit.

Thus parents seem to keep young between Them.

fuller scotch does incredebly poorly on her locomotron/ pattwarp to a goal. She selvered times got to a food site much too except for feed on it off the ground. The group seems to be between in spirits, but still get little pay-off for men hieronanighelation behavor Hera finds one on two grasshoppers: Buller scotch / perhaps one. also They seem thersty . Dietz arrives about 2PM + Depare to leave for PdA, with Jessie to help her get final pictures.

Edman + Eliane

as well as Carlos to see The
released animals at Pasagro,

On way back, we stop at Silva

Jardim where a baptism

so in progress. About to
leenagers are being baptised

and it seems that nearly the

whole town is There.

Brick at the horse Jim to despersed.

Brick at the horse Jim to the of deferent pringers—

white serie ghotographs—

ind have the smallest at PdA.

present are serie, Deh Jon Ann, Jim, Carlos & Zeke,

Everyone elso is dispersed.

Carlos
tree from wh/
6LT feed on Neester
Symphonia
rot
Callophy//um

Day 5 h Day 34 Nr

Figuly 85 mond.

Start dan taking Jesse ont to photograph, dam, Reserve antronce, feed lot with callle;

End up at Pedreiro and walk in Meet Jeke + Elizao dorng observs, + They take as to Ron Rita + # \$

Pre animals are wear the Redreise in south feter does not infant iaspar me Mistone.

be go one to determ to home for gas. Diongro has arrived.

Sport 1957 week politiching for Get conservation

attend new TWORK

Dand Datteched to PdA

Developing a sub
delegation for 1507

Note: Everyone had colds This trip. .
Started with Carlos

-> Zefne Andy Lon Ann Beate en Alva Jordan, melading more quando to prosecute bunters in general area of silva Jordan. I take Jesse ont to Conlo stray dies. He tokes is almost immedeately to he group of 5. [Heavy & light of Herry & light of 85 immegrated in together t both meles have mater both 94 also both I scent mark of Lyto Zinkalle Carlos Mentes / hat 199 may have reverged dominance when the jurales The ver males came in.

Carlos grong at batting station (3 meters height), then modered in encounter arrows the road involving a group in Dretz sondy area.

Jessie gets photographs of

GLTs nem the road side; I got so see some wild GLTs in an encounter. The second group has the pair + 2 infants. (# 107) Beth at asphalt (# 107) and have bunch at Jessie irth Dionisco + layrong to photograph maned sloth + reforestation plots. I go to Casimiro with Bells

+ Antonio to Shop for carriate
sell ac - her to get \$ into account, I get to write some letters In the Praca Both leaving and Return ghome, & find fire hots of fire set one possibly rea Desive boundary.

Ben Beste Andy & Ines to Id A for denner with Belly Jeke J. + LA Dress, to lawreng & Dionseo! The 3 chiefs Den discussions of the two released I declare hat we will not: plimit any animal to die (butter sworth in NO group sation vest lox for that she might have abouted since he saw mogen, lieking - we decide to feed her, if the looks porly to mondut;
We only partly agree about following protedure;

Conflict between Otroming Whichta as fast as possibly can by as cheaply (2) maintaining congerability in post release nearment of 2 groups in order to Vantenue to document dyferentes. Ben in favor of (1) + Oble (2) We discuss it firsten on following day & realize Hat we discipled on goods, + means, Jun Ben v I talk drinke Creme de mentre finally decede that Ber + D try talk nord. De set in gens Ones dines home + we all Collegse at Resago,

N.O. Day 5 30 July 85 Tuesday Start day with which to groups Working with Elizas + Fels moves ont a 40 m front nest box. Long calling at one sont (Later find out mat N.O. was also long calling). Beate comes to which + & go to N.O. for obsens to Ben had boln planning to had been looking terrible yesterday. Bill when I he arrived, she looked much better + was moving arth the group. Also had begun courting her son Prostie Theus following suffing mounting + grooming

Cindy thinks had she abouted ate the fetures (some good calories) and has begun to feel better. Ben & I keep disagreeing about the 2 groups some I herle that wicher is better ad N.O. not as good as hes! estimate. Especially since N.O. & Wich seemto finel as many food sixtes to to move equally V Dy course, as sen says, whichefu has been out 2 days longer Ihrem N.O. Do rute nute on N.O. They never come out, 245 PM / + until 5 PM when Ben shows Ines & D make denner at Pessegro.

By problem with whelita group. Bees moved into the nest box & They had not yet found a new Elepterte. Ben hook ladden pack talked to En Nilo, living at Pasagro, & found beekdeen, moved nest box while Beate led the micro around me box with food, so that they would no freakf out, They eventually went to sleep in new box.

Nich Day 8-N.O Ray 6

31 July 85 Wed.
Do good morning wake-up
on N.O. Must be there
They 0600 hours.

Afteen menute walk from The lab along The road.

I have durished and really cannol hold out until the animals amenge from the nest box. Then start collecting feeding data until want and feeding data until want arrive.

Have Mary Pauls + Elizania (Zique) to work worth,

Later Juni shows up + The animals are the trapped + weighed while I put out The distributed foods.

For feeding we have been using 12 landonly selected sites science diet, Banana arange to Papaya of 24 compass goints (\$5,10,15 m from 201)

The annals seem to be cuerny in both on & sites where they found food nevorsly and on the gellow flakeing which marks the stes. Of the N.O. Group, Hera + Venus (2 young 94) lozamorke an incredibly well + find lots of food (Venus meromanepul in back + finds a huge cuchet tolay). The young or Fromethers moves surprisilaly Stowly & continues to be pursued by his nother Bullerscotch They and the breeding male Loncelot arel forming a bosance triad for lgroowing to restrag, with De two 99 left on. V. Jum finds it havelen to and all have lost weight from processing. 2 still think that from t Bez areres xmade / her competence.

annals seen to need a but of a fored for @ 12 hr after awdlening, then The day goes in bonts of feeding Gollowed by o restring g and for moromanipulating for insects. hots of the resting is done thigh up by the run. We in discussions are fruelly realizing that altho The ranning has resulted in major behavioral differences between The groups, we don't know Whether he differes relate to survivorship. (probably) but The animals must range frutter + mm less open site. Rate of semching newsites must Inchease They seem to leap working at same setes.

ce do -emby

Ben rung in that for from the sof which the form the heat box

whe have denner at filva fording of the Hotel owned by Mary's father & Ben Jim & It discuss the next days approach.

We decide that the expt is over & it is time to stop feedera distributed foods &

deeling distributed foods of comparing the groups, but to start provisioning N.O. \* Haining and priorisioning Wichtla.

( rocesson 24hr food Waht 25 July 85 31 3Ang 702 633 V7. 1 la bonce 764 600 580 675 -14,1. lo Bout 595 580 668 N. 0. 13.2% Prom 607 543 12,7 lo Venus 10.4% Hera 558 520 500 Wichitz Process waster.
23 July 85
300 Jack 664 618 625 9.4° lo Pape 671 601 4.0% Maria 628 603 4975 man 631 600 600

No Day 7

1 ang 85 Thurs. Om responseble for preking up the Filva Jardin Mids in the Corcel. They are late and I'm a but possed. There are doesn't start + it appears that & Kelled he starter motor (already going). The mechanid & Beke & The kids pushotarded he vehicle and zeke (zigne) drove to Pesagro. incompetence in understanding motors and portuguese & DD peel very frus krated. Despend The day with the withite group & zeke Diget further annoyed & disappointed becaused They

3 Ang 85 Weights.

N.O. group

Venus 543
fromethems 580
Lencelot 633
Hera 500
Butterscotch 580

N.O. Waghts - Estmates

Venus 606
Prom 585
Lancelot 702
He a 520
Buttes cotar 600

don't work very hand of

Muss a lot, seen Mo

The observations are foring.

Mary had brought in with her

a book comparable to

Trivial Russiits and kept

askeng zigne questions

which distracted him.

They also didn't try to find animals when they were difficult to see and spent most of the day sitting or laying down.

Theo I'm et al come in and et is very confusing since all of a sudden marria & Wichita leave area of viveiro + take off to The SW towards The lattice

Jan totally impregared - Gel Author fillstrated. Adon't have a flashlight and do not understand The

trail system at all. ...

I feel dis arrested; + 0

don't feel that Zigne +

many eether care to or can

heep up with newing animals

One is there, but she + andy are

getting ready to leave.

after 1/2 hours close to

dark, Maria' leads The

whole group back to the

nest box,

I was amazed at Maria's
sudden movements out. Clearly
looking for something, but
The whole group bearining
disorrented & spending lots of
time on ground trying to
maintain Contact. At one found,
they spend a lot of time in a
liana: covered the near a
huge spiny palm, as Mongh
they were going to spend the
right. Maria keeps circling

he same area & eventrally The area of the viveiro. andy & Dres seturn to The Reserve with Jim while Ben Reate & D have dinner at Pesagro, Beans, Sursage, Donatoes T palmitos. has het averyone at lester Reserva, starting with Carlon Ines ben & Jun have built a PMP (Portable Micromanipulation Platform) for beginning to tram The Warchetta group. composed of The crossed bamboo stress with dead wood axands, The bamboo all has holes at uneven externals to encourage mm -

finished the experimental part of the release, where the two groups are compared, using distributed foods at 12 randomly placed sites at 5,10,15 in from trueiro.

Animals (especially Wichita)

group have begun to hey into The yellow flag markers indicating where each sixe is (total 24), and check each persons food site out in the A.M.

Deference in both groups is in locomotor proficiency and micromaniquelation rates.

New Orleans animals are occasionably finding natural animal food throw mm, but the habitat does not the habitat does not been have many browiliads. Place many browiliads. Place These success nate remains low.

The next step involves

provisioning both group Withet in the most efficient, cheapest way possible. I while training whicheta. Ber decides to leave Wielita's training protocolot experimental design, entirely to ones.

Current plan involve (1) weighing every 5-7 days on same day. (2) feeding onemels 100 g / day animal at 5 sites (# unimals in N.O.) and 4 sites (" Wichita group) usually for onehour between 1300-1400. (3) Vistributing food where the animals one, but the 5 maker of an animal randomly chosen each day. RATIONALE owes animals worning for working on Hindring good, but seinets provisioning of hungry onimals. DECISION: No monkey will storve

The system permits reducing food provisioning either on a per gram basis or by not provisioning one or two days per well — or both.

Pesagro + viverios:

Resigno is a an experimental station for growing citrus near believe Jurdim.

on it & a neighboring fazenda
is a patch of forest about 100
ha. The two overros have
been placed at opposite and of
The forest. The sites are
sovewhat different with the
v.o. group in a tabler sorest, with
older tiles & more palms.

There is little in the Forest since many species have been hunted out.

we live was bruit in 1971 to rever worked in . Probably built on world bonk or AID money. fin had it wered for Hel, but

all drenking Hro so carted in from the Reserva - a an hours drive.

also There is no electricate nor a fridge. Thus sood can't be kept cold + we survive on comment food — mostly.

The shower is deathly cold (and sometimes invigorating) to and also is only a stream, Thus you don't get too clean.

Ben + Andy need to primy water from the well for showers + The toilet.

The hill where the 106 is to the working before walk in the larly working before down; very soft + dreppy + 501/1,

Brazil with the odor of the grass in The pastures.

2 ang 85 Friday no Day 8

2 ang 85 Friday no Day 8

on The Wichta group. Mairais
first activity is to clock
all the yellow flag food sites
The group seems lungry, but
eventually hit he top of a

sunning! tree and rest.

up a hellside, orteide og he nest box. It was interesting may both groups started noving out from The nest box at The same time, despite two days defference in release date. Jen brought Silva Jurdin observers in & I realized har I had no Ming to do. to I spent some lime walking The trail system vabrorling some mixeral ni letter from Bob might have a new job. Karl E. may have moved back into the house. [ I later have a dream That when I return home, K has moved in, mought lot of

new furniture and Fold most of my furniture).

Ben T I gave weelnta gromp Some food in Their PMP. Pape T Juan mm on incredible ant. The mm behavior is certainly locked in Twereases cronsal level to tetrity; ever w/o ony posetive reinforcement.

A fed N.O. group up the hillside with Paulo + Mary doing observations. Deding Ou. altho Here eats little, having found 1/2 arange just before I feed at 1300.

setum to Reserve to clarge, to
return to RBPA with Jim.
Sweep floor.

Jeel a bit fustrated about

living arrangements + my lack

of Portuguese. Also moving

loom fesage to reserve

kleps me very besomented +

disorganzed. Preking T

repacking my day pack.

On way to silva Jardin.

bump into Deorisio (are such
meetings vardom?) with
a politico from Brazilia
(Delegado from Brazilia
(Delegado from Brazilia
Joshing into the rental of space
for the subdelegação office
to be developed at filia
Jurdin:

Jun is lectured to by this man about deforestation & we finally get away.

He is about 35-40; self important.
with to big a gut; smokes; to appears I xo be a political hack.

Pont getting trasilea to ogree

to Arese subdelegation offices
so a really good victory for
Diornero.

Carlos & Beth.

However has been a constant

problem; I never getting

anything done on time.

2) Never setting priorities

3) Never saying what has been or

has not been completed

4) Never asking for help when their

behind.

5) Not communicating with Jun + Lon dun about what's happening.

But shere have been no major Inancial disasters yet, althowith Iron Councing one check, it was netly close.

Not opening mail
Dury put \$ 5,000 of own \$.

Not sending account stakments.

Id spoken to him briefly
at Pesague about application
for The PhD program at
Seorge Magon. I also
enconrage him to apply to
UVa + VPI. in brology &
environmental sciences.

bluvenz interviers nor geople who want work one a stritterer who traps + sells birds ' The other a barefoot black 'That gave len, dres oral The creeps.

after denner Juni I have one of our long-ranging talks about his future, Carlos, Andy.

parts of the budget.

Betty Howser is due to be called torno row to see upt 18,000 had or will be deposited. When I had tolked with her on mond. It want clear whether The Dietz would taxany money at all.

N.O. Day 9 Wicheta Day 11 3 ang 85 Saturday Drove back to Reserve \* preked up observers @ 0715 [Andrera, Elizao, Paulo]. Went into mata late; watched N.O.; Then Wichita a bit Bent I trapped animals between 11- 1300 hrs. I weighed them. Veners too basely hungry & comes to hap too early Wichita group has lost on average 5%.
N.O. 12% [estimates]

The difference seems related to N.O. greater locomotor obility pequehent locomotron, ranging N.O. O are bourguer, more vore, but still look O.K.

Jan shows up with Clarks Padua + wife 803 bura

eves how them the animals of groups. Ben of grin excited about showing Claudio The depleances lave forked by the N.O. groups going into the next box by 1300 and barely coming whit.

Jemi takes can

Ben Beate Claudio Ensanna

De get ripped in front of

The lab on white wine, with

Ben eventually making a

fre and Beate some dinner.

had n't been able to talk with hom before in such a relaxed atmosphere.

They left obout 10PM after talking about his stricties on chrysopygus (cauget 7 annal) Combra, Garnewille (JFE, Robinson, Carlos Peres), Lenophobia tomorror priorities.

Alug 83 Sunday Wheheta Day 12

Went out late [0700] to

feed & check ominals. Then

fi cleaned house & packed.

antonio drove us to silva gardin

to nek up assostants, been meat

(for churroses).

Cerrwed offen noon, Promocio 5 wife, kids, parents-u-law to sub-mi-laws More.

medel up on BA 101 on the asphalt.

There are @ 25 people for

There are @ 25 people for Charrisson. I we lid up cheerful deveing. Mugueea

Occinitate

dende oil

onion / tomato

coconut in mile. w/o sugar

kot pepper

garlice

salt & pepper

don't boil coconut milk. Men add

froh & sante on medium (don't

overcook) — Ther add coconut

mily.—

Ensophela w/o en dende orl.

SANG 85 Monday My ut 430 Am and drive to Rio airport to get flight to Salvador. Am exhausted having been up since about midnite waiting to get up. O oversleep + Dietz, wahls me it 453 An when it are supposed to plane at 05000 hours.

anport to trade of netrogen tanks to arrange for me to take blood back from chrysopygus.

Jam's drive to Rio amport
was the fastest most deingerons
I had seen - Lots of mist to
trucks from heading to Rio on a
monday A. M.

was a 11/2 hrs.

Deave in on regular bies
Salvador is exquisitely placed
on he typ of the brazil
bulge, live from he airport

to city along beaches that are really exqueste. But at / some point at the Barra; where we end up strying we are on beach by the buy (Bioto Todos Santos). I And the water is gentle w/o breakers ( & and up having 2 exquante sumo on an "urban" beach whell is so calm + perfect for summing & court believe Stay at the Barra Turnomo Hotel (7 Setiembre Rua). Onthe beach - altho there's lots of Traffic noise until late at right, early morning. Go from upper to lower city there are I lidnoch at the Merciaels, I then spend of at the market to get very cranky. at night visit

folkloric center with kesturant (SENAC) in very old part of town. School for training people in restaurants but they so folk love show which isn't mat good.

Autoador U. deffect from Rio - Bahrans are apparently friendly -

Also visited 2 churches
(moldy churches—according to
Deers)— São trances co with a
monaspery + a lay church
wext door where lay brothers
sheletons were buried in a
crypt in a basement + The
front was a barogne 'y' style.

Had to take the taxi home Bangamed with 3 drivers

Cost 6000 C3 [\$0,75] Anring day—apter dinner Mey wanted 25,000 c3. We climbed into VW bug +
mede it home.

Ranning much of day.

Denner includes 40

dish buffet.

Tues 6 Rug 85 deg early and walked about 40 min. bejond Salvador lighthouse, outh early morning exercises of people going to work. Entin lant I rain started. Then spent more of in artesan shops und! time for 1BDF interviews (which gin shad been organizing).

Priver + taked to head greesters.
14ad of Delegato of
Bahia — Chlando Samparo Passos

blantsful modern Office with Bruzilian mural on wall degreting Gavenin-like Gorest, Javenin-like the are There to meet w/
press + discuss the GLT
reintroduction and to
observe + advise the Brhans
(a) The chrysomelles situation

Jani - Ben - O have
already discussed need to
amphasize observation of
consultation - not concertiate
on removature from.

During interview w/ 3 reporters

+ Orlando Orlando imphasizes
The importance of conservation

+ preservation + the reed to
be Thoughtful + not assume

gingle solutions

Intervais borng but or

Having dinner at restairant on street to left of lighthorise along street hecently restored call Ki. Mukekka — Tood merelisly good!

hedresday 7 and 85

Had early AM swrm, breakfast)
buch to shop to spend more money,
and to surport to fly to Scheud!
Hight late + we land in Illeno
1300 hrs.

Picked up by Saturnino + Wilson. Saturnino is Director of Reserve at Una.

We drive to Reserve. SUMMARY OF UNA:

head quarters The South forest has but head quarters the Southern half has a 60 familias as squatters. Cetting rid of squatters is worst problem to about 2700 has libble needs to pay off improvements made by the squatters. Estimates for

paying off squatters varies. IBDF'S Oppræsal is 1250, 000 (but squatters may ask for more) Saturnino says that he could clear 80% of The squatters ont with \$ 111,000, but it would have to be done quickly. Saturnent also says that it is cheaper in the long hun to remove squatters Than to ony other forest put ches since coss of high's land in The area is very high's Very good aprecultural land!
2 million cz / ha (exchange \$ 286.00 ha. 1BDF has \$50,000 to remove Squatters - But There I is also \$ 45,000 in head of FBGN from

purpose is to do something for chrysomelas. ID says mat origin & function of the wonly is unclear, but the property of solling up no apparent goal.

using the Money to eliminate synathers is the way to go.

Roserve Facilities: Anclude.

Director - Saturnino

young biologist from Salvador
been director for a 1 year.

Visited PAA for week to

Observe organization of PdA,
Saturnino @ 25; lives in

Una (a Mikm), but a

try Mat take much longer

give boad in Leserve

is difficult.

(CEPLAC will be

paying to pave some part of

road leading from asphal to

Technician - chief quard: Wilson - who stays with
we on all rips around
Reserve w/ Saturnino.

There are addedoncelly 6 quards,
I 4WD vehicle / which regards

type your 3.5 km / liter of
yas (jeep)
I VW bug which regorate
Reserve roads reasonably well.

They also have I horses for patrolling including 4 which remain at the southern end of the Reserve we The heavy squatter influence. Suturnino has mot theed heavy patrolling to reduce additional mirvads by squatters.

Bate of reserve exists w/ sign.
They want to bruld quard
house at gate to turn back ppl
with no business There.

Kladgmarkers about 4km

from gate. Includes 2 houses, one w/ office, kitchen + 3 extra bedroom [ cement ]

Another (wooder) with 2 bedrooms, ketcher & bathroom. Tuppmently used by grando].

Largen house has porch small viveirs in back holding
young & captive chrysomelas.
Which was confiscated and
to be sent to
Carmen alongo in Paraiba who
maintains some captive callitricheds.
Ceptive & has rickets-like problem,
wit lettle ability to climb or
walk; they to climb or
walk; they hight hundleg
buely motile.

They have really occess to good water thru a lovely river below. The houses we later sump see a water driven pump which brings the HA a 800 m from their clam

and primp up to the house. Saturnino hopes to primp theo up to a new grand house at the Reserves entrance @ 3 km away.

Kitchen \* bathroom foulities look really good \* clean + useful altho They don't lave pots \* pans \* Seturnino complained bitterly a lack by money for small things

No electricity, but the 2 houses would be perfectly wo hable for a research project. Entry road off main asphalt is terribly eroded now, but is to be paved by CEPLAC.

Reserve has good trail Eystem used by guards on horseback.

Apparently there is some urgancy to paying of squatters. They have been prohibited from planting for the good year t are meatening for the start planting crops again.

Reserve not yet completely fenced?

To get from headquarters of Reserve

In Northern sector to region with

squatters is nearly a five hour

Preturn trip drive due to bad roads.

There are GHT in The are a + some

lecent forest. But roads are v. bod.

Estimated to be 60 families in !

Keserve. Little hunting pressure

in the N. sector where there are few

people.

Saturnino thinks that the land near

The Reserve has considerable decent

eforest remaining.

Explant AGRICULTURAL USE:

De Cacas: The briggest cropsin

The region in while only the

understory of the firest needs to

be cut and tall emergents

left to provide shake for

young creas. Cacas only

begins bearing furt after

5-6 years, but may live for

90 years.

Stade may be provided thee initially by burana thee Older cacao closes to need as much shade.

DRubber - clearentting love for rubber. Seems to be increasing in frequency componed to cacao butf has been around for hundreds of years.

hand planted in cacao not considered meta by 1BDF Thus owners Shill need to maintain 20% loud in mata.

Fire no problem except on edges of reserve.

Both coens + rubber plantations use unsectrcide; especially caeso which altho bolling lile forest which altho bolling lile forest because miero fanna is destroyed.

GHT apparently coexists of cacao.

6HTs - Are seen regularly by quards in groups/larger Than 10. faturneno induales /hat gronp ørze averages 8 / Sen gronps of 11,12,2). GHTs after seen crassing roads and in scrubby- looking and growth - more than "climax forest. suturnino has had several confiscates and released into the Rosewe. The later see a wild chrysomelas approved the viveiro of the captive: Wely to be released animals. Kleerve also has 3 other primate: Celons apella lanthosternis (seen at CPRJ Callethrix kuhlii: Callicon personetro: (according to the Reglands: leserve Que for only weakons 2 species Also 2 camedo, agonti, poca are common they have deer secrary and more birds Than ask normally seen at PdA Also moved sloth +1 two (2) stron slott sprie & Jaturnino has no idea how many anunds ji he Keserve. Still! flents + animals in reserve.

has seriodic problem of confiscated animals, but prequery of animals being available for confracation is declining. Saturnino knew of few animals at the time. theirons industrials have mostly been released and S. doesn't want either to continue releasing unimal or to turn into a holding facility. He doesn't have logistical supplort Kenato pad prevously recommended Net CEPLAC (Cacao growers) Support building a holding & breeding fruitty for anniels to be hemp blued. CEPLAC apparently agreed to land + construction but Twit salares for vet tuesers. Project proposal died. The 6HTs in Reserve have deastroisely prought in wild groups thru long calling 5. recently had 5 GHTs in ting (!) case which attracted Denner 1st might at town of Una. An incredibly good meignera! with lots of cervina.

Thursday 8ang 85 Walted thru Una beginning @ 0730 - Continued Thru about 1500 hrs. Estimate that we walked about 10-12 mi. I took all my plotog, eguipment with me who evertually caused real grief somce we were wolking up down hells and had to cross rivers/ speams on logs 3 times. apella xanthoshirnis which Beck identifies & yets good look at. En The first part of the forest looks very young. Thin tall shaggly trees we then cross supports on lunas. Saturnino leeps saying hat he thinks it unlikely that the first had been out en the just due to lack of a decent road system, Jun Trink several trunks which must have To we move thru Reserve forest type changes with better -Hooking larger deh trees, Also forast looks

incredely more complex than PdA with a vast profusion of browleads of every type, discussed sizes & height of would make a supert comparison w/ Wont see many animals in The mata during our walk but The forest does appears very rich t complex althound as old as I would have expected! in The past. Much of our walk is along The Reserve boundary bordered by a fazonda Turth some squatter problem. The walk has its moments with Deetz Saturnino + Wilson doing balancing octs ocross rather wide rivers via a set of logs. Ben prefers to go across on his rump

As do I for some of the crossings. Lon ann's balance is incredible [ Pley say from square lancing], but some of Jim's activity involves mucho ing — it out we The Reserve Director.

down of The causes of the differences in frost types both wir Cona & in comparison with Pd H are probably due to (1) Richer soil - Una co in a Hich agricultural area. (2) Degree of prior abuse of land. Trobably less continuous abuse of Una. (Ino Closeners to sea. Una very (4) Stope of hell & temperature The forest at Wha changes motors perceptibly; peguently Thus si within 20 m, may go from forest w/o

any reasonably old looking,

large deh trees to forest with trees of considerable size. Only saw 2 or 3 huge buttersed sig trees during walk: have never seen even one at PdA.

Return to house we find wild "

6HT nearby. Also woman to child who wash off our book to wash off our book to wash seales pants.

planer en town at the only llace restaurant up more mugueca

FRIDAY 9 And 85 Leave early with Jim Saturnino to go to Habrina to meet with CEPLAC administrators. It takes 3 drives in + out to get everyone + Their luggage out of the Reserve. On way to CEPLAC headykers laturnino asks about 1) & for squatters (2) # + best wechanism for dealing 3) donig research in Usa

Hell him Heat we couldn't easely or gundley come up with money to pay off squatters And that research studies would take better than a your to put on the ground. No guest lasy solution. pin & & arrive at EBOF + pick up Noe who is The

leason between IBDF + CEPLAC He forms no on the viert to CEPLAC. expensive losking with grands at entronce. he wait for > 1 hr to see our people & eventually Ben, Louann, etc. arrive. And we all troops in to talk With the CEPLACI regional coordinator + one of their agronomisto. Jum makes our case that stagests GHT is endangered Ounique to Bahia, should be conserved + Nat its conservation is impossible W/o CEPLACS active involvement & support. I was ask him to emphasize both preservation of motor

while undergoing development That it might be a unique opportunity for conservation + development interest to show that they can co-exist. Also a reporter present from Their respect new sletter wanting to know why we were there. We requested that CEPLAC survey The owners of cacao plantation concerning available forest & known populations of Lichrysomelas, CEP LAC barono appear interested in conserating. They already knew of the work with rosalia near Res. Onfort Saturnino + the CEPLAC people indicated that some people Monghet contased rosalea w/ chrysomelas. I think its hardest for These people to understand that They are responsible for some thing Uniquely brogilian.

Noë drives gin v me an entourage of cars Thru CEPLAC - explans something of their research on Cacoo growing. There is one site of undistribed foreste O One plot with go year old cacao That hasn't been tonehed in 25 years. He shows no where they untrate was processing. Fruit stays in vats covered by fles - rotting essentially Ofth @ 5 days & Man May Idry The seeds/bears in The Isun, much like coffee. Branlians produce an incredible amount of coas across The country, Utul eat little chosolate. CEPLAC runs the equivalent of an ogs extension bererce with 400 administrators/ too technicums based in rearly every small farming town

An incredible way to read forwarion!

Ta region there are - 96 regional extension offices derived from cocao industry. Revi purpose to reach people on the methodology of growing cacao while waintaining environment.

onstartly about CEPLAC × is

paid by Them, but he is supposed to work for IBDF. Jam say mat he is at a game worden level educationally. Before Saturnino was hined Not was reponsible (so it seems) for dealing with confiscated animals, the claims to have broken a big smuggling muse why was selling animals (will drug GHTs) to declars in Rio + Sao Bulo about

18 mos ago.

Is mos ago. Discussed hourng a harryng engle in a case at a fulling

station, Caught about 16HT about 18 mod which the released 14 animals into The Reserve. He also spake of some Callithing Kuhlin which he released at The GEPLAC headquarters' untoucled yorest plot. It get The impression That he has little understanding of conservation + Ben + D'il nervous Decause he talks non-500p + Claring that he is taking ins to The Schous surport on time for our plight to Belo Horisonse Hoomse we don't leave CEPLAC until @ 11:45 AM and our Belo flight was! due to leave of at 1215. As it turns out we bailly make the flight, and The VW bug I holding half

our luggage breaks down on the way to airport to everyone gets stuffed into fathernings which Stay at Hotel Hmazonas in Belo where I stuyed pressionsly for Primate Congress. Hew mor lovely new Belo angert (a) 45 drive from Visit handleroft shop Then to Bastos to brug some 870res. I am het present but pind that I still decide to spend > 400 but don't really get exactly what & want. I Sen + B. spend about 1000 1) Ben bruging Beate a \$200 heart-shapped amethyse with a line of yellow citrine behind rear hotel (a I block away)
Alpino Rostown

10 aug Sat herve Belo early + sol at his airport igreeing on the strakegy for our report to IBDF. Taxi to Berants: Look at his animals. Apparently he was resently offerred 12pr + 109 rosagia / + The rumorer is that some animals were tattooed. Lovely lunch - chicken liver pake + Tohoti fish - like conche Tuna or bonito
chapsed tomato + carrots cocontt milk

To De surport by 1800 to meet One, Andy Claudio Padua WILL liquid notrogen fank of blood.

Dellanemals at Reserve

String fine: New Orleans
has been moving far, but
are skill tred to Repplement
feeding. Neither group slept
out of his top since
we've been gone. Thes
started her experimental
work by wichita but is
about to start working
with distributed for off
since the group is aggressive.

Repe + Juan keep kreking
everyone off the platform.

(2) Clandio Padura arrives with man named Dim Ellis - graduste student of John Roben on Storm
Unw! Garnesville, working
m Latin American Soudies
Program on Master's looking
att organization, sometime
amenals, etc. in Brazilian
2005.

Bran Am agent notes That

ny flight reads 30 July

even though it's working.

Dispend 3 honro

worrying about not getting

onto because of tricket of

Ecange Im I carrying

liquid nitrogen tank

Junelly end up flying

18t class to Nyc for

first time.

Potential for CEPLAC assistance (1) ID forest & soil types

Wy agronomists

botonical specialists. Dravide unfo. On long-terme changes in rainfall temper. 3) Provide info on history of agreelfure in The region; especially wir. t. selective logging LCEPLAC been in existence about 25 yes. (9) Encourage Them to play amilar role to Roberto marinho Ida in Rio. Produce TV spots on conservation + plaster CEPLAC'S rampallova. (3) Encourage CEPLAS to exert beadership in conservation coexisting with sensible development, at international level. Winternational recognition.

CEPLAC con provide land, vehicles, logistical support, unwilling to support salaries. Dretz suggests for fundraising to support elemenation of Una squatters - going to international chocolate dempinies Herstoys, Nestle's, Tobles Itc. book for single large donors.

sond Saturnina 607 management + breeding protocols.

TO PAGE 17

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ONE A due 2 Sept to Lon Ann Support # 9,000 Andy Baker St Fellowsky \$18,000 Jun memo para proposali completed by 24 Ang. Dennschke vonk proper Elise: Buddlern hat Kerlfast moveel in the bail needs my arrival time. Tell Bob to five with my best, I hope Tell Bob to take my con to annot single & BTB

61 budgets Osborne Computer - For Andy Hear forman has enough to do isogyme study will metochandrial ENA sondy be worth it? Wear O Brens lat handle a log of samples. (3) hill live get much more
(3) De Lisse capable of doing
The Bo mixo. DNA) NO: wait Till next years on her own money of she was Trapping in thight. last 2 weeks in Seft. Juni ge

Write Bakens with Thanks To Do Have face bring the son Ochkon latter Laurenz Rustrak Sondrenzsits Receiver binocular comment for lameny Dellesses Species Act infrared Con Page talee Wars down? Page needs car 
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Theoretical Ideath is seen Characteristics 85% body weight No locomotion dearrhen p vomiting & exerovely head nodding I 100% freed Farence / banana/ en hap separate from group ( Stop feeding when I weights stabilize Can you have in Brazil in mate. He we water animals knowingly starve to death.

U Document defferences Days 6-10 the mm EN & EP # sites exploited! The box of succes rate # mm/ #EN. Chock weights Day 5/6 (2) Then feed thatly (2) 2PM - wherever They are in embedded - destribute

